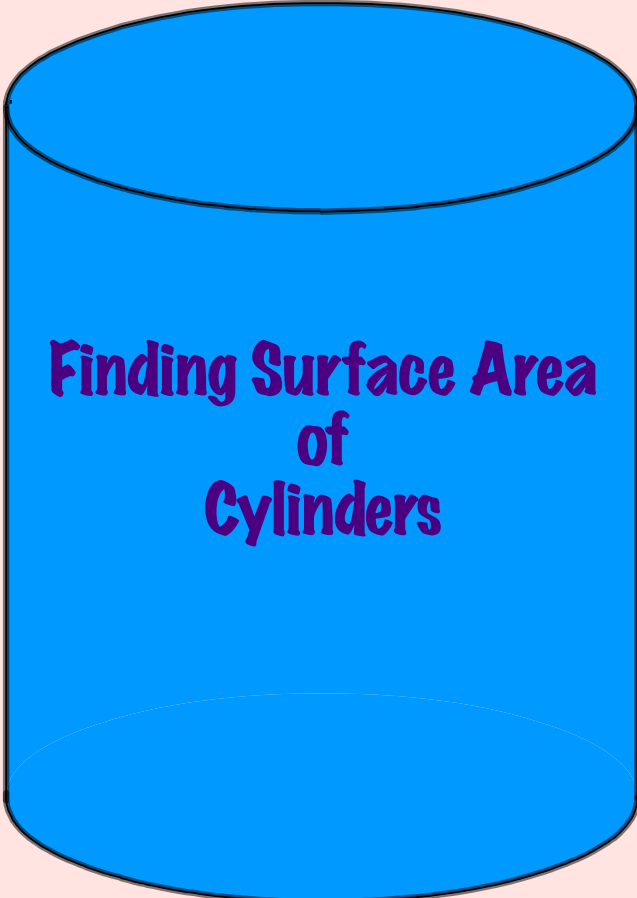
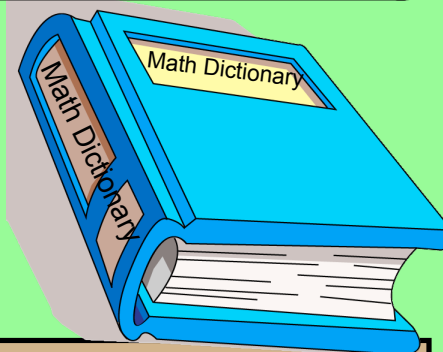
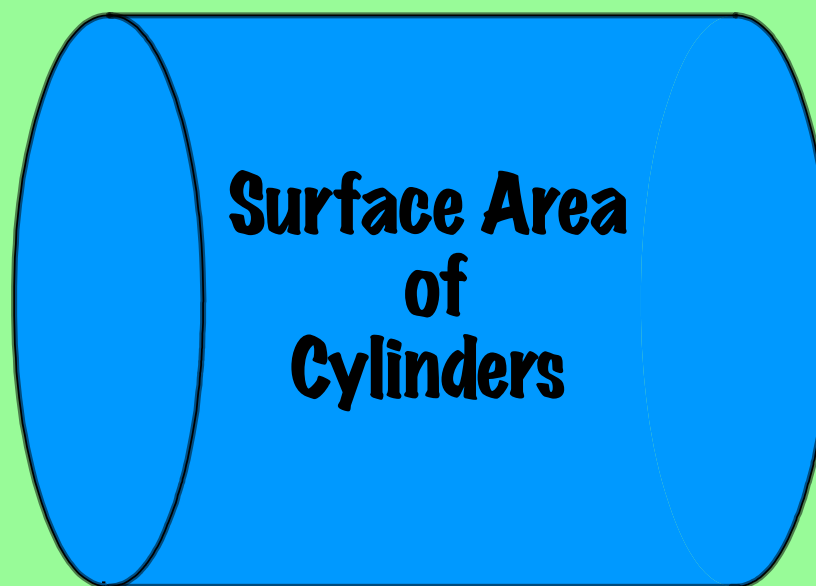


5:1:1



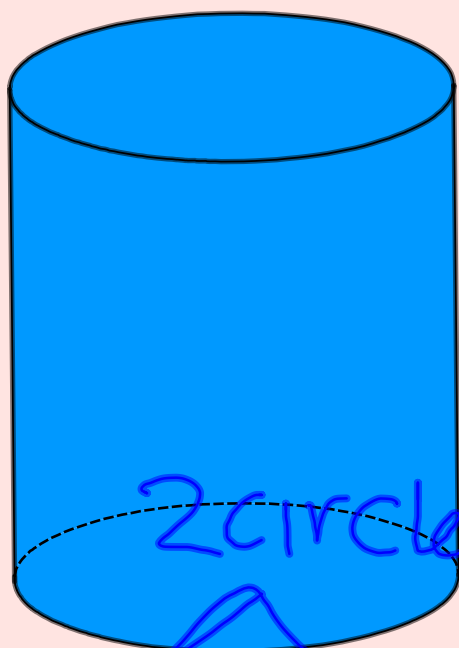
**Finding Surface Area
of
Cylinders**

Add to your Math Dictionary . . .

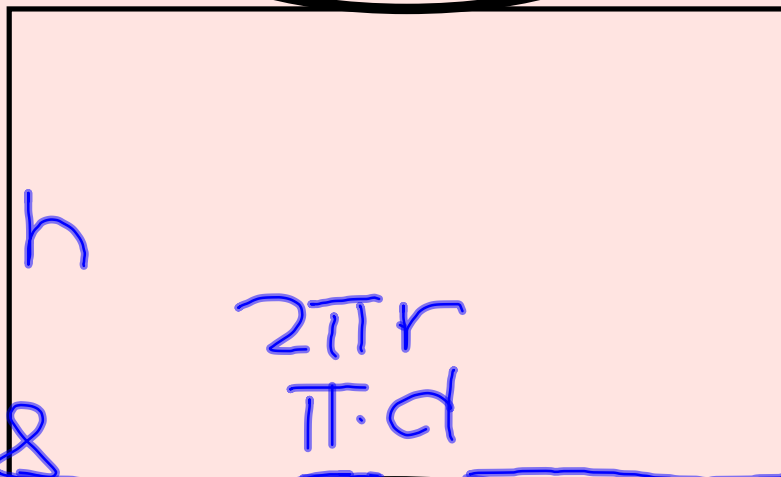


Definition combined area of the figure's outer surfaces

Let's break it down...



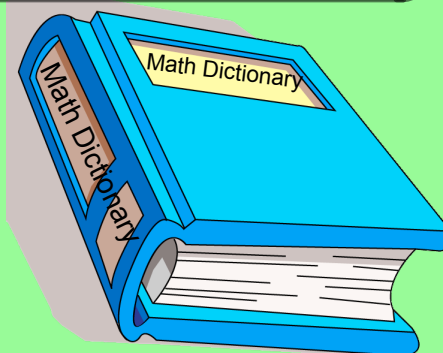
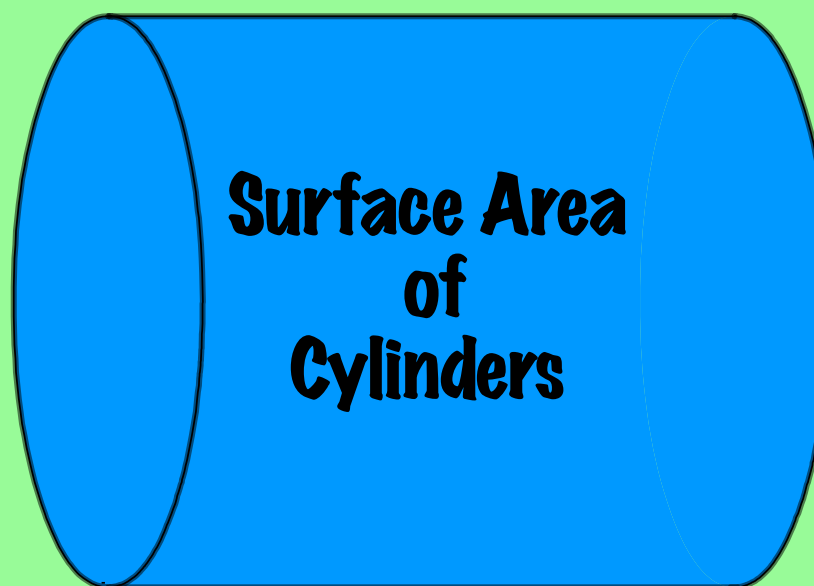
$$\pi \cdot r \cdot r$$



$$\pi \cdot r \cdot r$$

$$SA = 2 \cdot \pi \cdot r \cdot r + 2 \cdot \pi \cdot r \cdot h$$

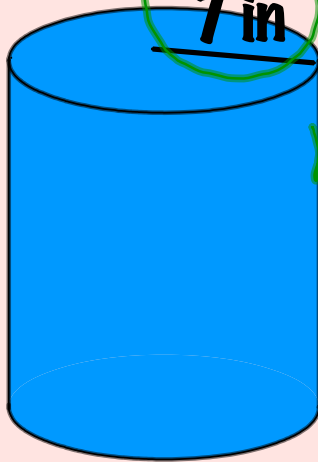
Add to your Math Dictionary . . .



Formula $S.A. = 2 \pi r r + 2 \pi r h$ (r=radius, h=height)

Examples & what your work should look like...

1)



$$SA = 2\pi \cdot r \cdot r + 2\pi \cdot r \cdot h$$

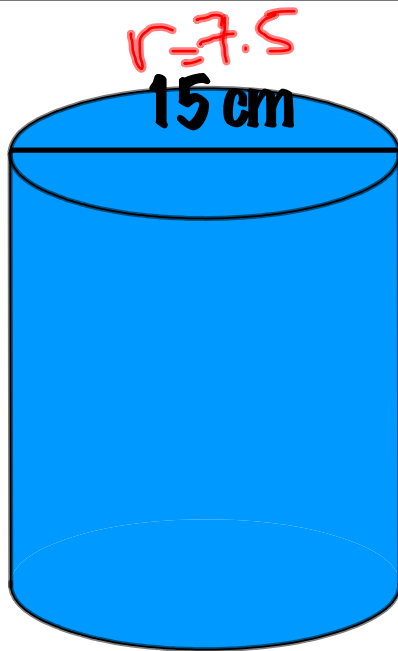
$$SA = (2 \cdot \pi \cdot 7 \cdot 7) + (2 \cdot \pi \cdot 7 \cdot 15)$$

$$SA = \underline{307.88} + \underline{659.73}$$

$$SA = 967.61 \text{ m}^2$$

Answer

3)

 23 cm

$$SA = 2 \cdot \pi \cdot r \cdot r + 2 \cdot \pi \cdot r \cdot h$$

$$SA = 2 \cdot \pi \cdot 7.5 \cdot 7.5 + 2 \cdot \pi \cdot 7.5 \cdot 23$$

$$SA = 353.43 + 1083.85$$

$$SA = 1437.28 \text{ cm}^2$$

Answer

Homework

****Should have 5 lines of work & a label! ✓**

page